

MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

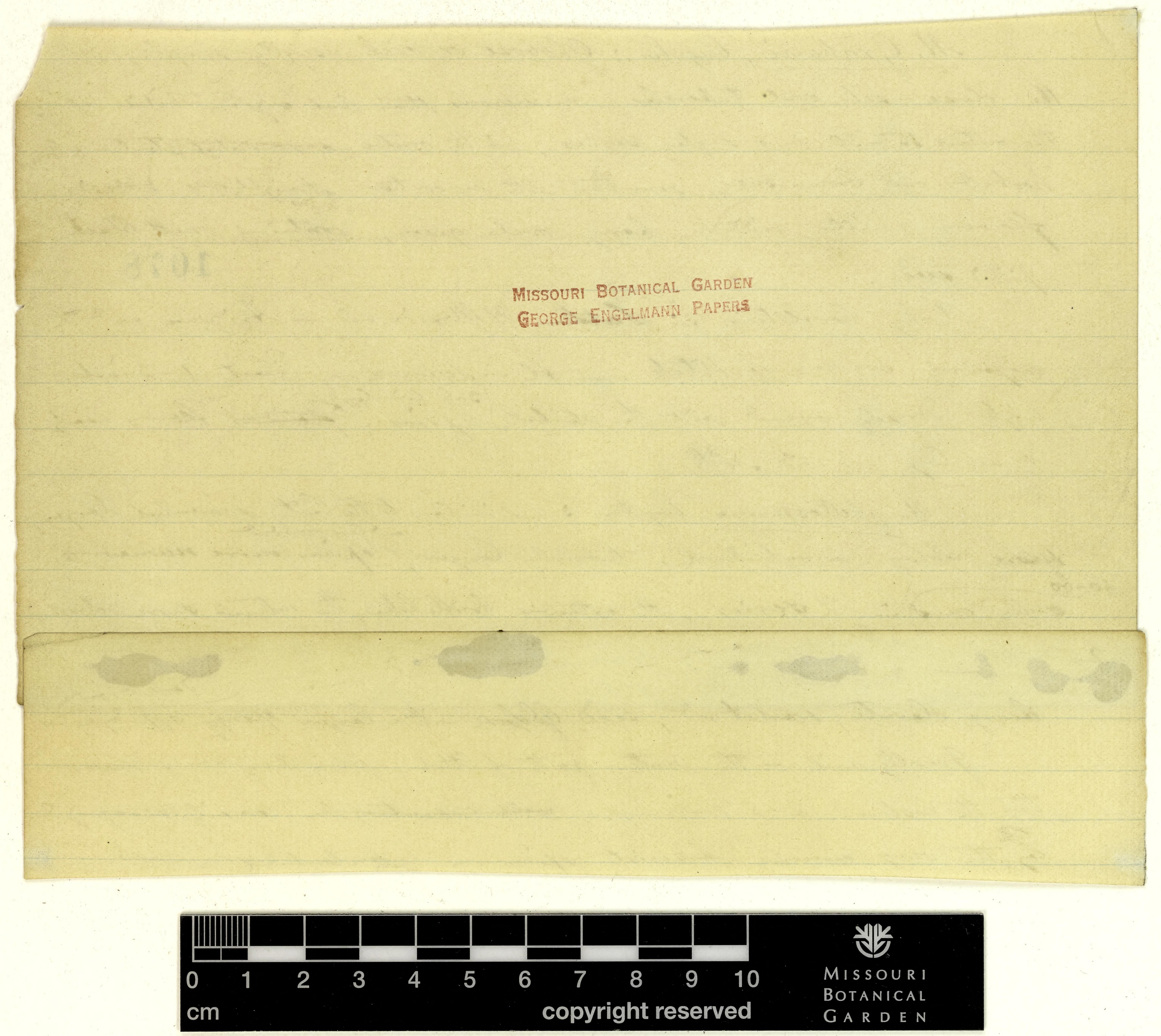


M. Grahami, Engelm.; Globose or oval, usuilly simple; on the close - set oval takenter numerous that But orgio Statish spine The outer 15-30 is a single series, in the centre a somewhat stoute & longs hooked edge brown one, sometime, with our or two strught our addedy flowers small reddish beny oval green, contains smill black, pitted keeds. Aveky Coestities in Watelle MMexico I in Arizone It light densely rove I wilt the while spin for How nearly linch Con al exist of dock Mare dolog - or orghishood, toburdy longer of spices more numeros

40-60

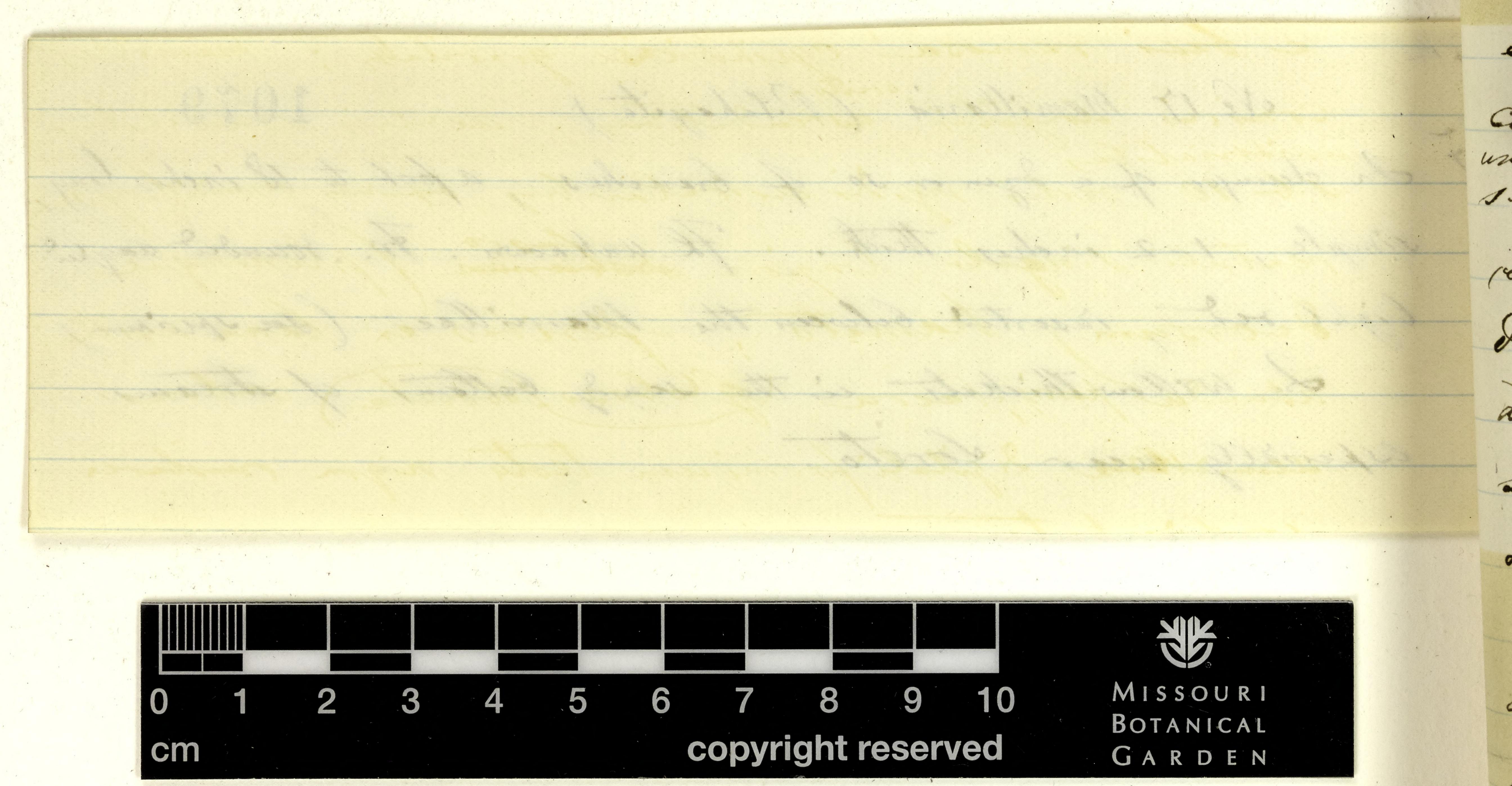
outer ones in 2 veries, the extense brilleliho, the interior more stock, exite (pi, 3-4), om of more of the booked; floor, ten berny davite, scartet not, seed goodeose with a layer sprong, applyer Gravelle soil - the souther part of Attel, pring anyma. There the the last - 2-5 who high, well about of easily very 2 lythe very name bizeriate spin, a with about the MISSOURI BOTANICAL copyright reserved cm

GARDEN



formbulut, coulier. 1. mgCetto Cartaine of the Californian Buinsele Worm gabb 1867 1079 Ne 17. Mamillania (Mitahegita) In cleunger of a drzen or so of branches, a foot to 18 inches long, simple, 1-2 inches thick. It unknown. Fr. rounded augled light ved inserted beloven the Mannillan (see sproince) In Willow Thickels in the sandy bottoms of streams Espenally near Noveto orrorrucala. In Willo thinkets in the sand bottoms of streamy espenally rear doreto . - gover i changes A a dyen or more branches 1-1/2 feet long 1-2 inches in thickness, Tubersles 10-12 mm in & order, the 5 x 8 spirals most prominent. long; extensor spin, 10-15 mm, rental one 2-3 mg long; terry remarkably short, much like that of Man. Muttallie, and different from any lumana d know-, The plant has The appearance of a Coryphanty but is verta by an Enmainillanis of the Jection evilt aqueous j'uire and closely allied with M. pusilla and M. grahami, but remarkale for its slender at high growth and Mrs large contrel books, and its globose fruit 1080 MISSOURI

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Jable No 17. Mamillania (laman Hani) longehameta


e basi ramosa oglihdricis gravilety; mamillis

conicis elongotis ascendentitus, aculeis radicliby

uniterialitus

sh 10 virtis ngidi acrivalantry, superulo obsaminiforginis jentuli singulo longion obstantes pleningue deorsum) hameto, floribus ex lana axillari atunda penni, bærra Goboso (oboveta) nom sem ettessa sigilali formi um testa nign misterer dontirulata. In Willo thiskets in the sandy bottoms of streams espenally rear doreto. - grows i champs A a Hyen or more branches 1-1/2 feel long, 1-2 inches in thickness. Tubersles 10-12 mm in & order, the 5 x 8 spirals most prominent.
long; Extensor spin, 10-15 mm, central one 2-3 mg long; terry remarkably short, much like that of Man. Muttallie, and different from any lumana The plant has The appearance of a Coryphanty but is certaily are Eumainillaries of the Techo with agueous j'wire and ressely allied with M. pusilla and M. Grahami, Et remerkble for its slender at high growth and its large control brooks, and its globose fruit 1080 MISSOURI

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over

Mamillania selispina simplicitus ebusi ramonis / uscudulitas / caulibus / cipliadricis fesciculatis ; mainthis conitis abbrevit; as condentibus; aculeis (elongalis (setencis) flexitos es, itramineis, radialities 1-serialities sol 10- fractionte, centralities sul 4 parla rigidonstur longionstur, 3 superioriles reelis defino saipites curvets humatore; floritis ex lana axillan paroa parois? Rocky or growly soil in the virinity of Son Borga . \_ Steens a objen or more "that a foot high, It - 2 inches thick, covering an area of 2 or 3 feet " Tuberoly 6 m 7 um long, spires 1-3 and long, very slender at flexuor, controllons vanible, 2-5 mil long, Jacken to want the tip. Mr gebt describes the flower as I large, 3-3'p inches long, bell shape, of a beautiful purplish red colour.



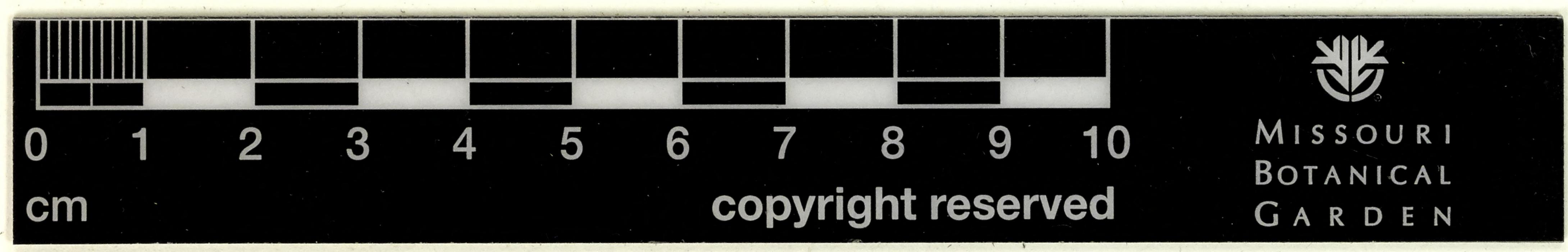
which would inditate a congphanthe but the Huberdes show no trace of a grove, and more over a with ered fragment of a Hoter of flower, latertly attached to the sperimen is of the usual small D'ineuries say 18-20 man long, sothert I have no Touch that Mr Gobbs statements is founded on some orror of the plant is evidently closely allist with 17.11. longehamata, and prihrifully dilinguists by The tuberde, being only half as large, as the Spiles much loagen at more Header MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

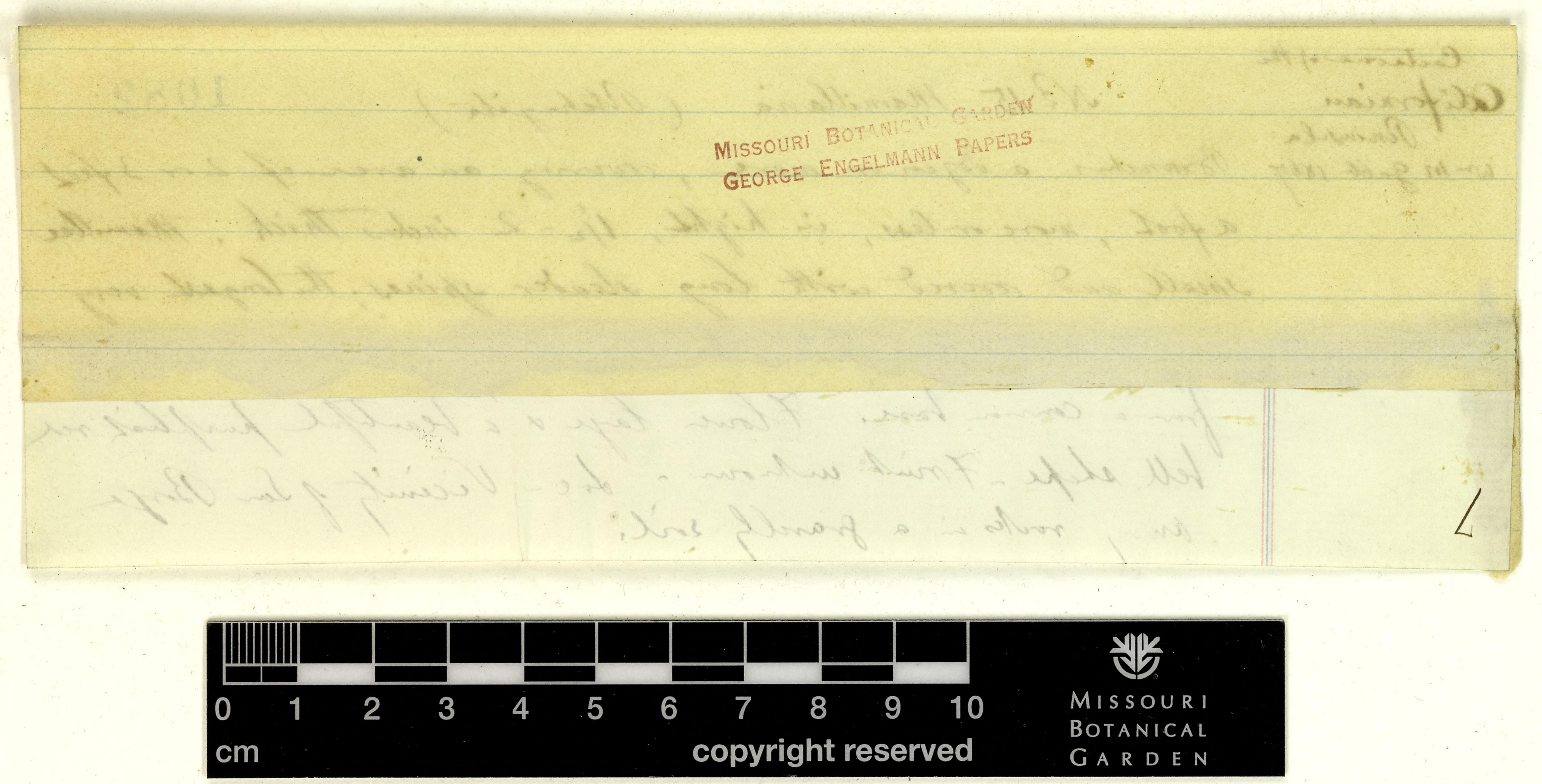
0 1 2 3 4 5 6 7 8 9 10

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GARDEN

Cactaine of the Odifornian N2 15. Mamillania (Otahayita) 1082 Veningula worm gabt 1867 Branches a Syen or more, oversty an aven of 2 or 3 feet N2 15. Mamillania (Ottahagita) a foot, more or less, in hight, 1/2-2 inches thick. Mamillee small and overed with long sleader sprines. The longest very Just holded, see speciment, Branches not ramose, starting for a common basi. Flower layer & a beautiful purplish red bell skepe - Frint unknown - dre - Vicinity fran Boye ann, rocks in a grandly soil.





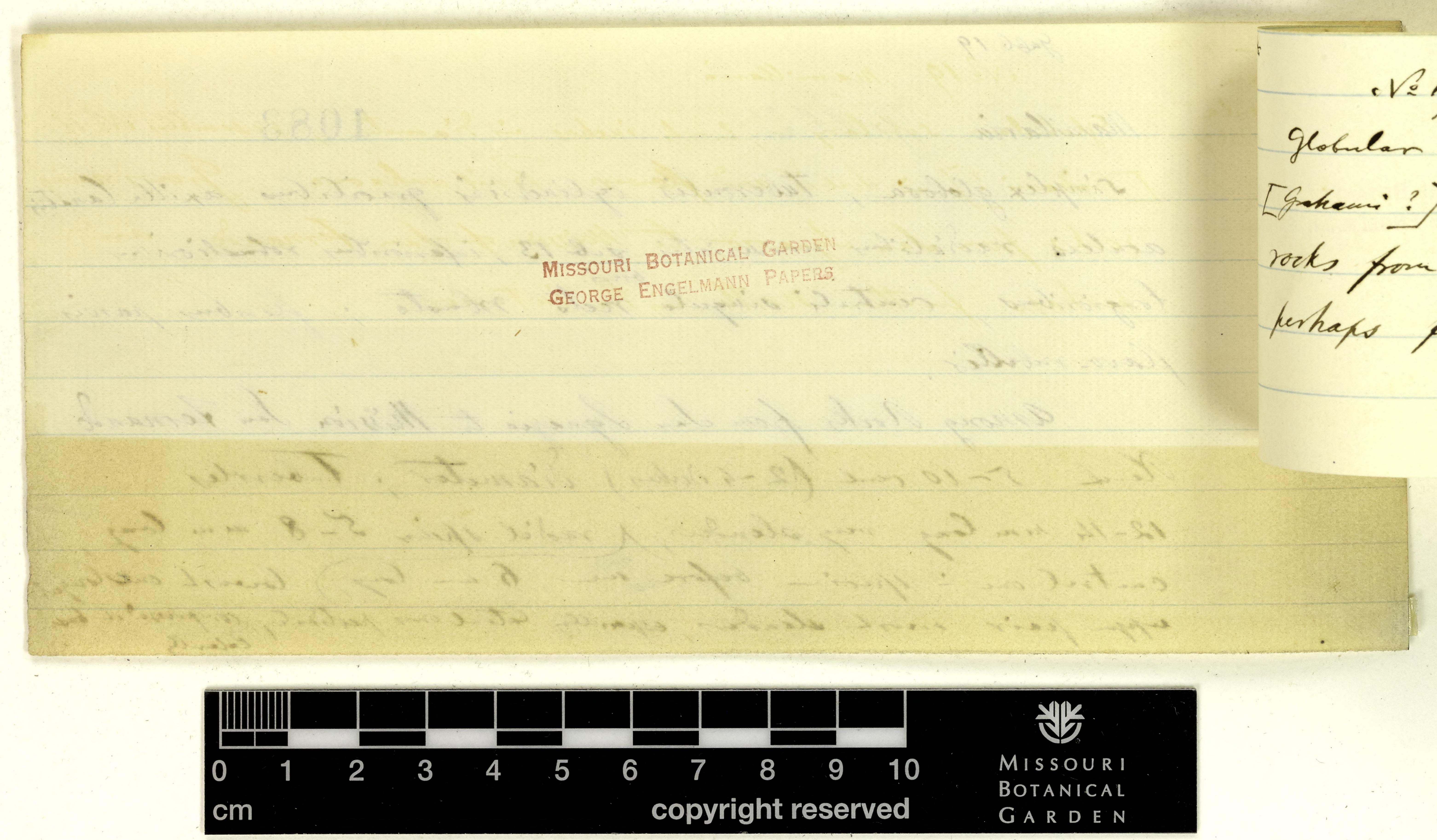
9abb 19 Mamillaria Jabbii 1083 Simplex globosa, tuberoulis cylindricis gnoilibres axilla lanatis dougiosibus rentali singulo recto robusto; floribus panis flavo-nibellij. Among Nocks from Lan Squagio to Mission San Fernando Neal 5-10 rule (2-4 inches) D'ameter, Tuberrles 12-14 mm long very slender, pradick språg 5-8 mm long, cutted one i speri - before me 6 an long) bours Long longest upper pair most sleaders, espendly latere our pertial, compressed at base 

cm

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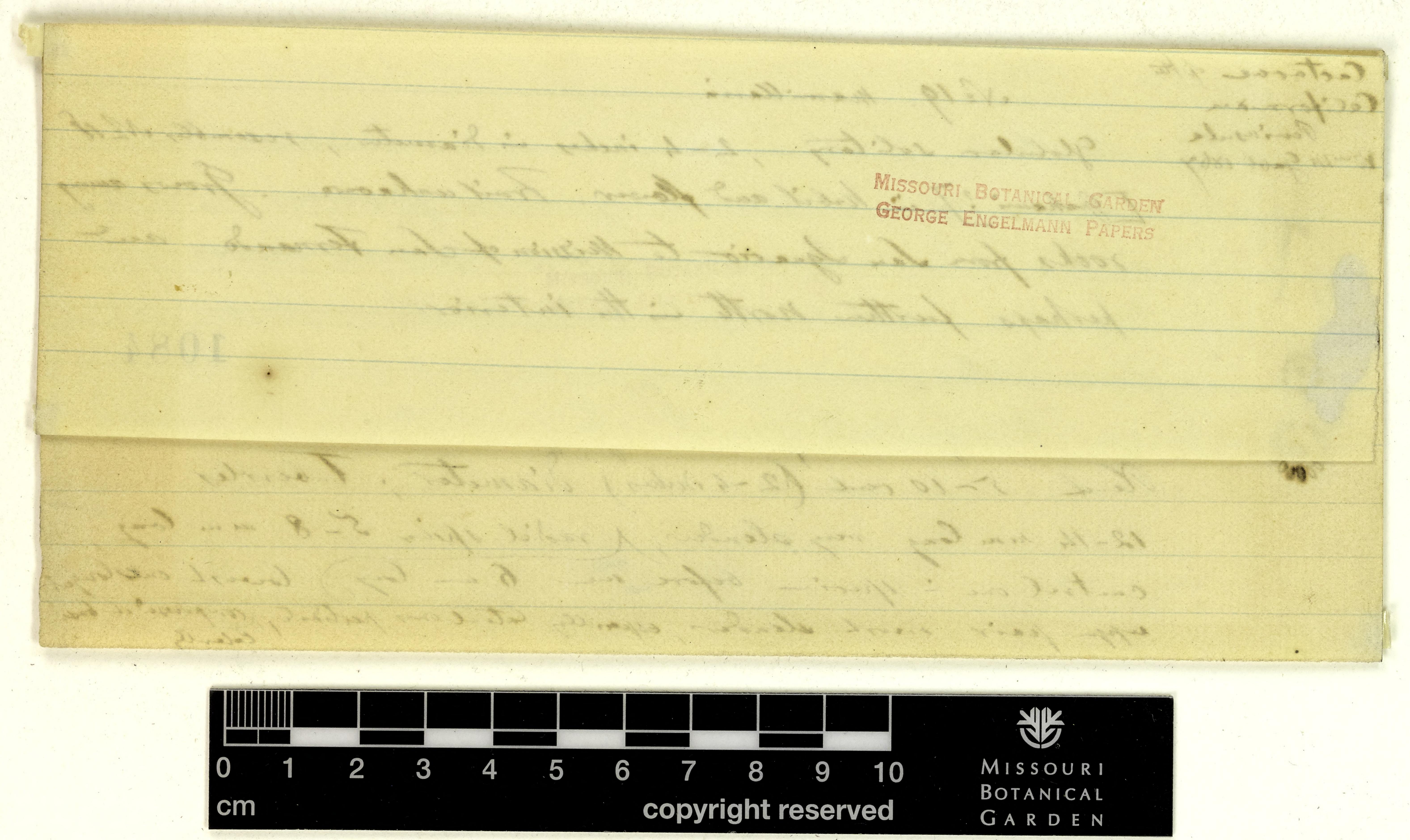
BOTANICAL

GARDEN



in of the e Vé 19. mamillana Globular solitary, 2-4 inches in Siameter, resembles NE16 I Gahami? Ti habit and flower, Fruit unknown. Frows among rocks from San Squarro to Mission of San Fernando and perhaps further north in the interior

0 1 2 3 4 5 6 7 8 9 10 MISSOURI BOTANICAL GARDEN



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MISSOURI BOTANICAL GARDEN

farinaceous white tipped purple on fuscous, Zadial spines from 13 to 15, less stout, whiteist hyaline at lass spagne, flowers sponstelle dispersed erregularly between the tubercles of the area uncevente. and petats lanceolate pointed cream= colon tinged and tipped purple or prink, sexual organs cream color, bacca tinear clavate, soft skinned, juicy, bright crimson, seeds small buffcolon. Downs at Progress, 8 leagues il. of Merida, blooms in Sebr. March and April Mernacular name, cabeza en cabe cita de negro Among the numerous spreumens met one came under observation, which was about I long and bent in the midelle under a right- angle. It bearing at The time nothing of inflorence ian therefore referred to The chiracters of the Inhercles, areothe and spines to the above species. As he constant it an aboution

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MISSOURI BOTANICAL GARDEN

1186 Mm 1872 Mani Clavis Goodsvidgei Scheen aip Selm Hart. Lyck. 1850 p 91 cast Done p. 8 t. 8 f. 9-14 Longo Cot p. 6 Spencer Sperior set by Long 1872 5-7 inches tigh 2's - Non.


Mauille short outh als hally que Ingland consiste on beek, 4-5-ling long; in 21/50 order, 13 x 21 series mod promisent, 12-15 morte 14 mere spires, Bitish semilmerpand njed gnyish offwilt dæthteps, 2-3/2 lies log i sifert sperituen, Ente Spin- 1 = 4 Congen (h-5- l. Cog). Convert stoutest convert up sand, others world It might, Hours adlasias to plant seedt black, sombioulate julitary seent figured i Original signal of Second in State of Salar Briskles in any ill state, as figure I decon in the - donadon Report Aug 1875 Spenn sent for Son Siego fresh. frit sælde plung, clavite, seed, ar above a fyre, overt mm er 1.7 long Touble, 2/55 ord. evy they as about

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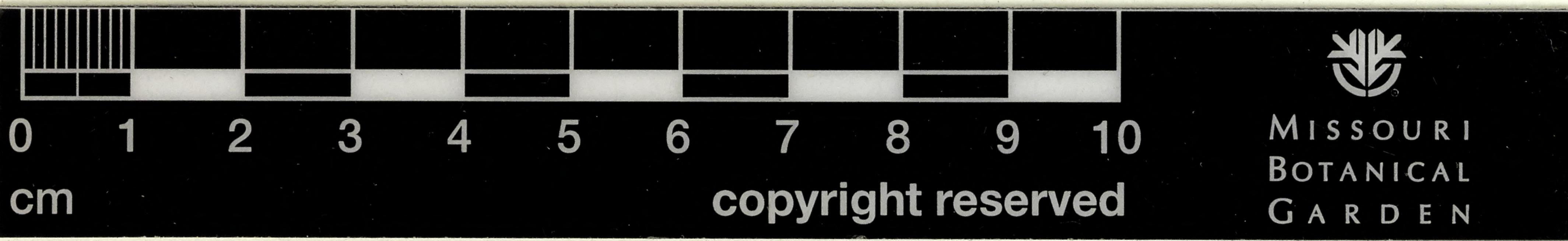
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Fil Myording ? 1087 Chamillaria. Rocky places Carmen island i Julfof Alejorna hooked sprain, ved fruit, pritted Each seed. A Civing øperimen en Wishington 8 inches high. DETalmer



Office of Missouri Botanical Garden Waters Patent Heater Co., H. N. WATERS, PATENTEE. Hartford, Conn., Mul 30 18/2



goodridgei

3 M. goodridei

original spar (coc)

f. M. Salm

six back front

Man Goodrichii obligan Jan. 1857

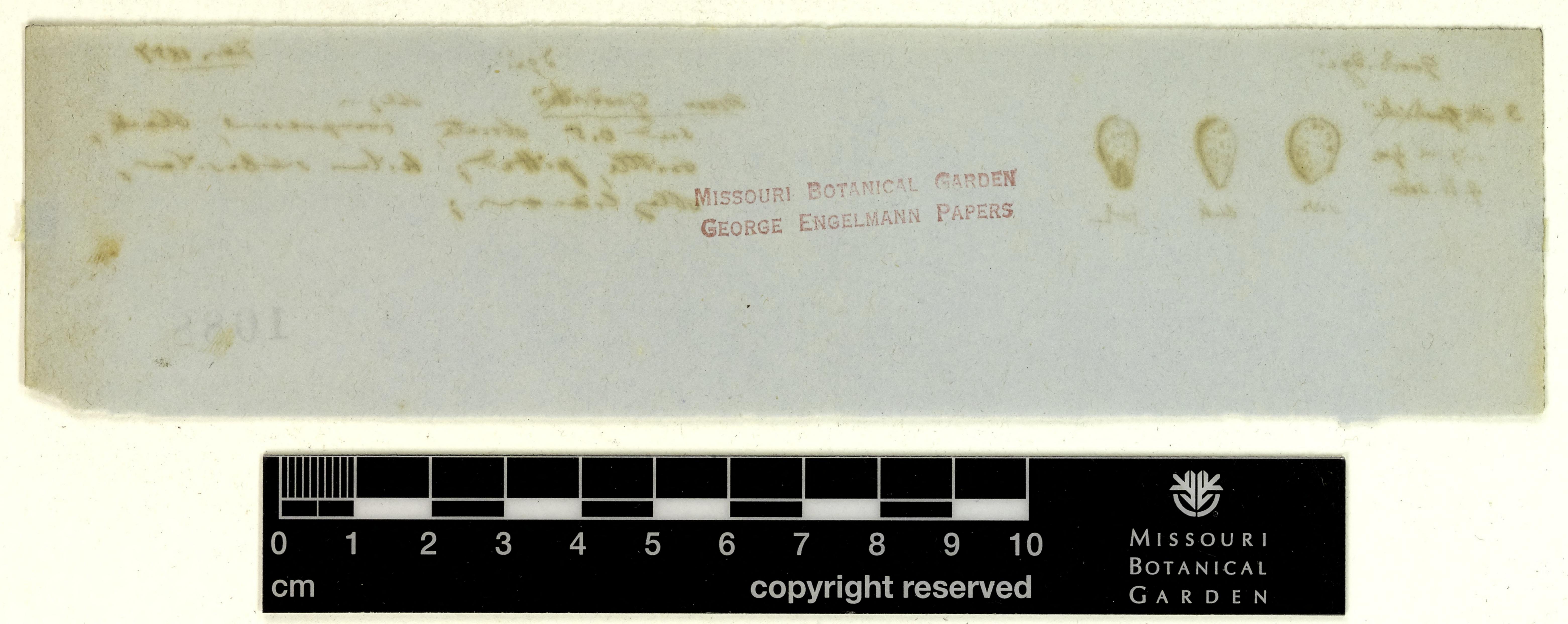
Sund 0.5 oborate compresse black,

Grittle pitted, hile sales ilan,

obleg Garan;

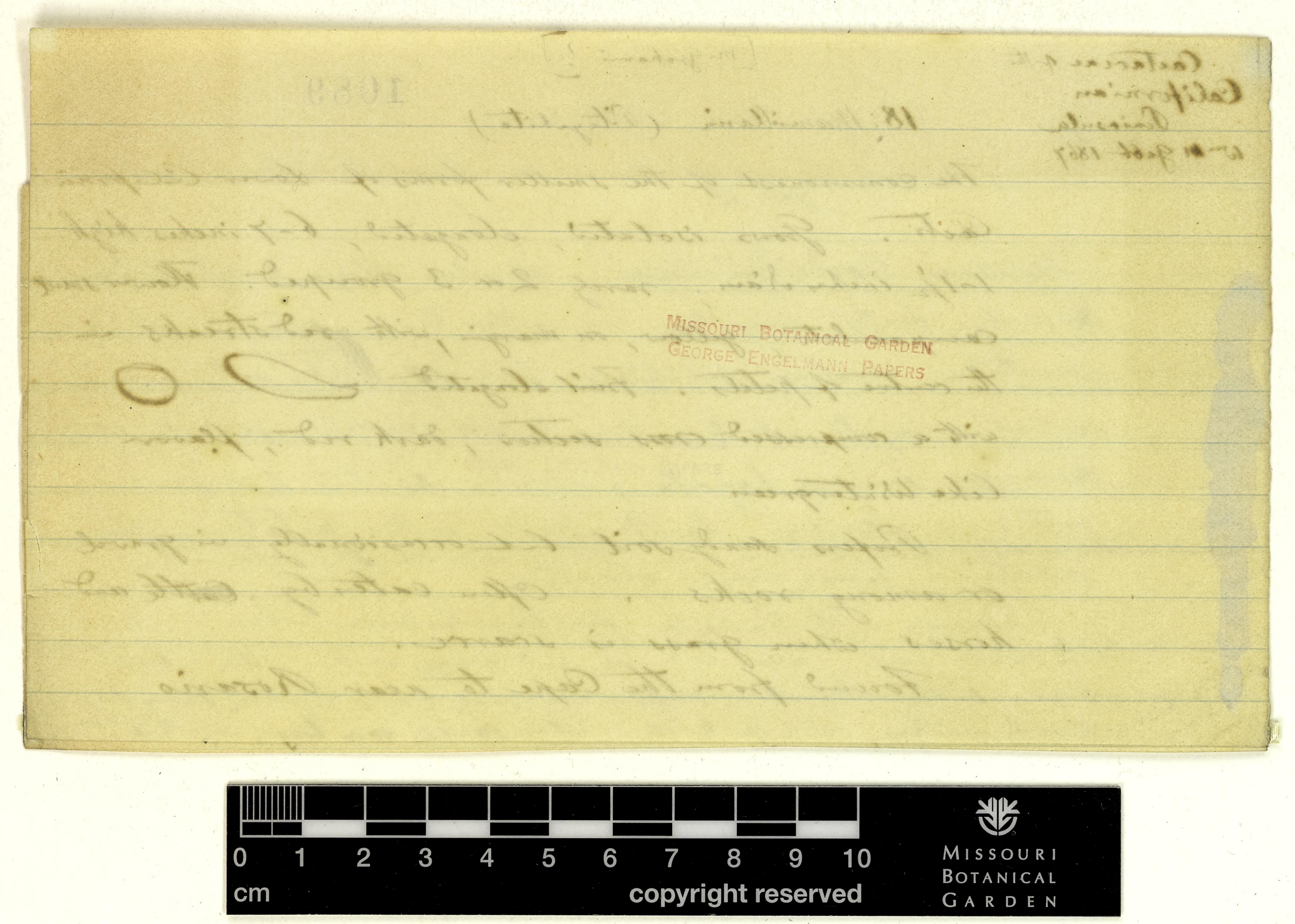
1088





[m. Grahami?] Caetarine of the 1089 Californian Eniasula Wan gabb 1867 18. Mamillanin (Pitzyskita) The commonest of the smaller forms of Lover California Cacti. Grows isolated, elongated, 6-7 inches high Iste incher Sam sardy 2 or 3 grouped: Hower smill campanulete, gellow, on margin, with yord streaks in Hu centre of petals. Fruit slongated & with a compressed cross section, dark red, flavor like bisatergreen Prefers sandy soil but occasionally in gravel or among rocks, Often eaters by tottle and horses when grass is scarce. Found from the Cape to near Rosario MISSOURI

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[mgrahami?] Caetaciae of the Californian Eninsula Wm In Gabb 1867 18. Mamillanin (Pitagatita) To gebt 18. Mamillania Goodridgie Scheer simplex oblonge s. og Goodrica. Interrulis ovatis brevibus ad axillas lunam setasque rigidas longibres gerentitus, aculeis radalitus fere 13 jadvitis setis precis (aprice spheordatis, infersion by solutionity centrali singula sobustione obscurión sursum hamato, sibilde Adritis 2 superioriles

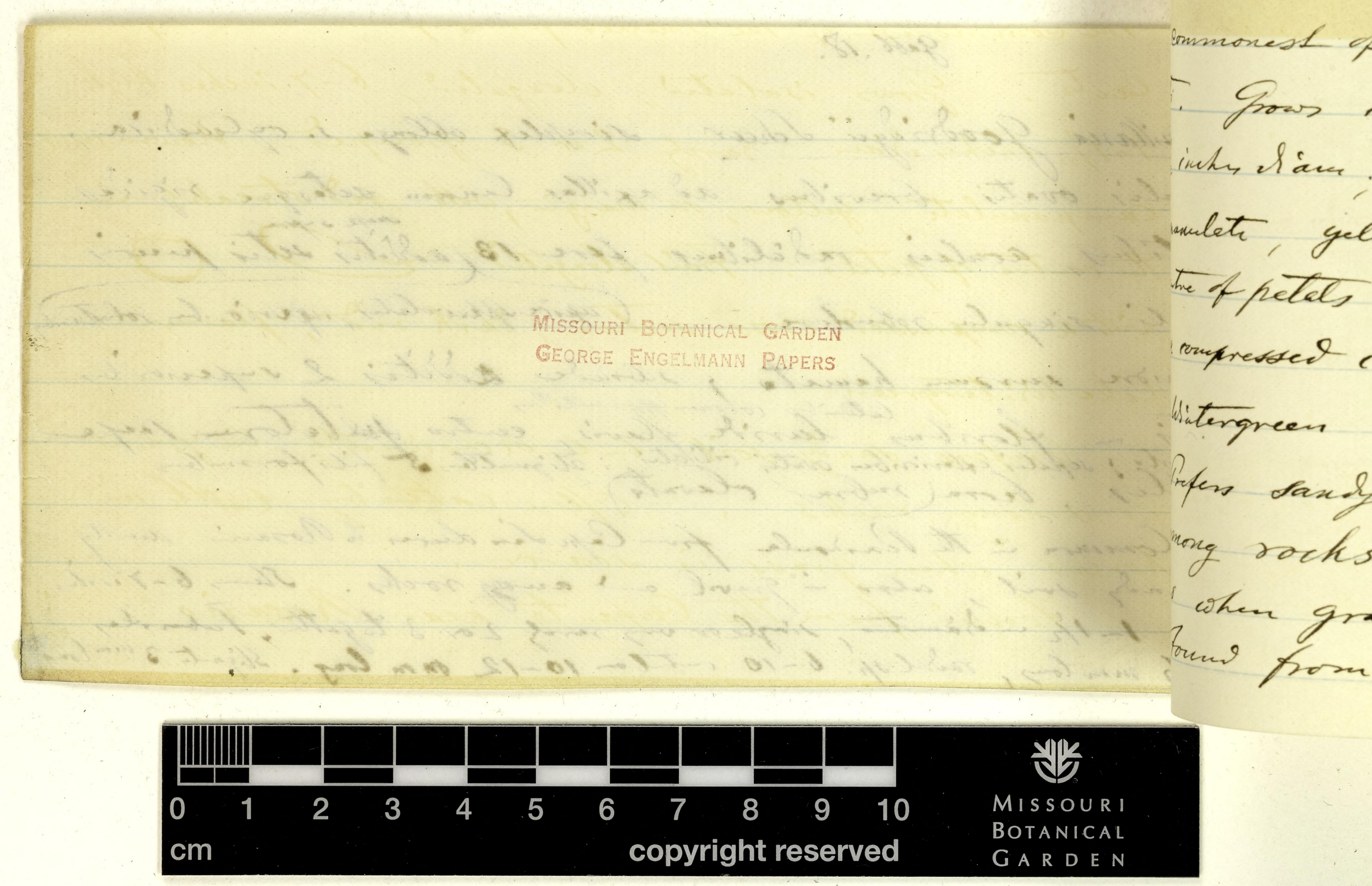
rection floribus leuride flavis centro pelalore pape

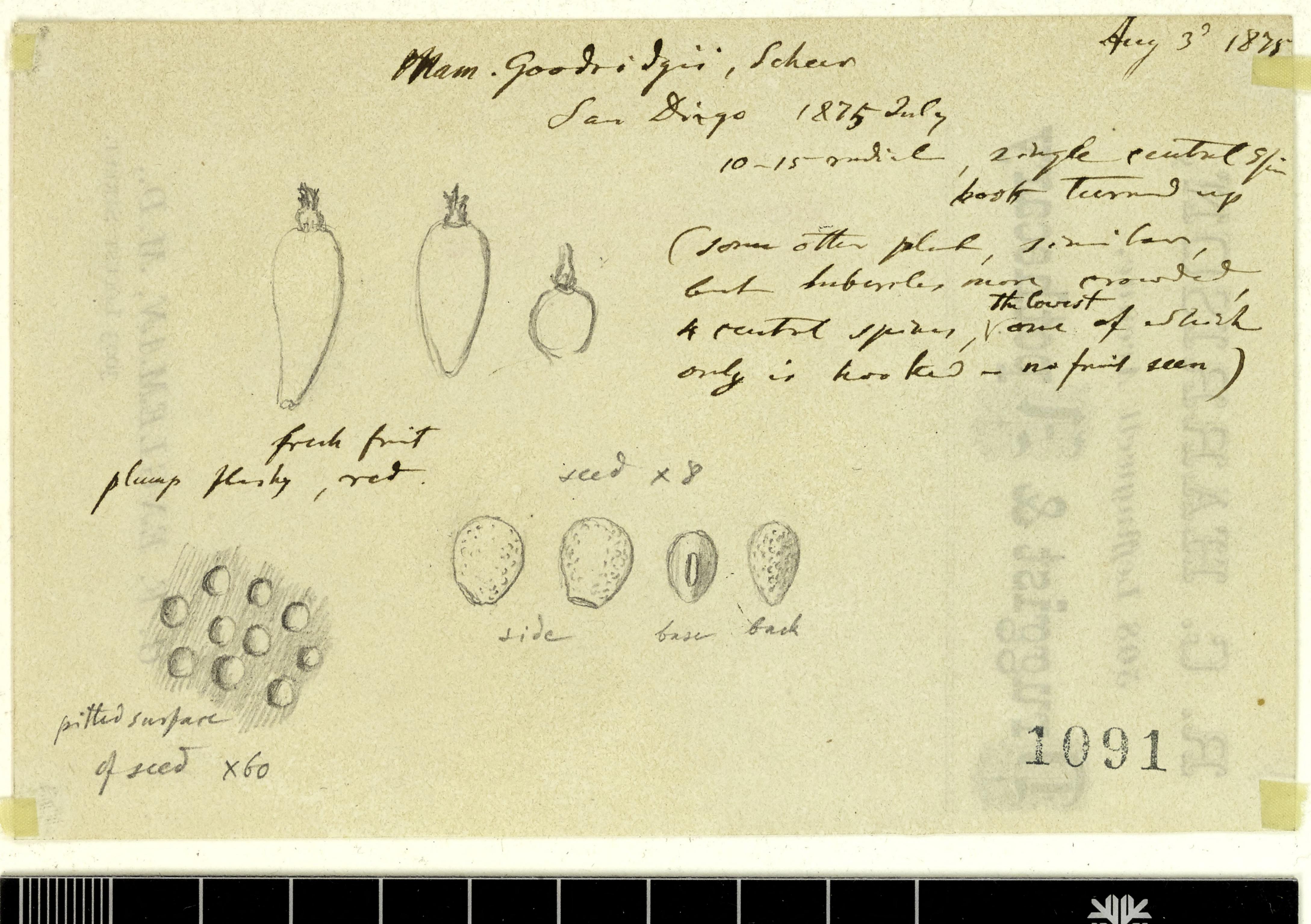
ovario abinitio excerto; sepalis exterioribes oratis ciliatis; digualla, o filisformiles

pubelles berra ruban clavato. Common i the Veningula for Cape des duces to Mosavi mostly I sandy svil, ales - gravel at away rocks. Show, 6-7 inch high, 1-1/2 i d'aute, single or very sand 2 or 3 to gette, laborder, son 6 mm long, radrelsp. 6-10 oute 10-12 mm long. Stignte 3 mm long MISSOURI BOTANICAL

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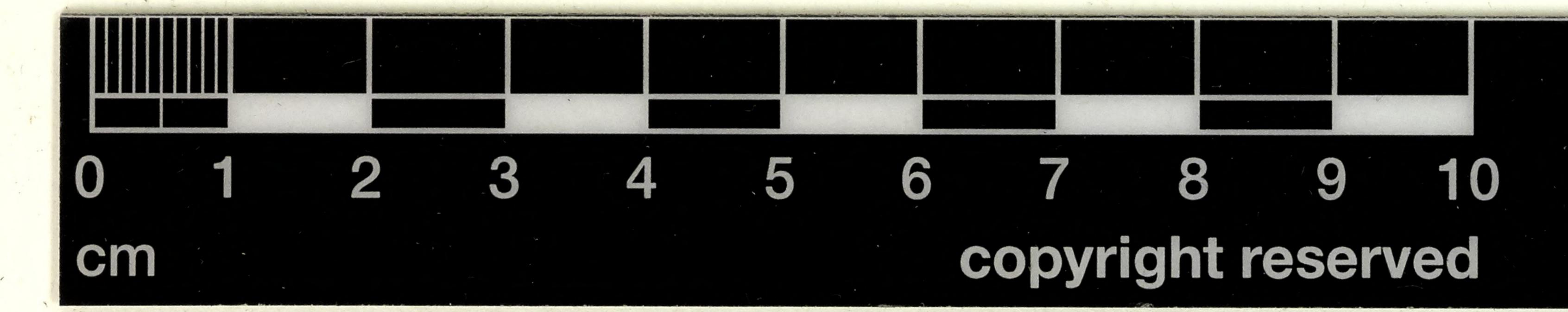
GARDEN







MISSOURI BOTANICAL GARDEM GEORGE ENGELMANN PAPERS



MISSOURI BOTANICAL GARDEN Man. Goods deji onghal California
Sperimen from Pehcer in Call Value Had Toberder abt 21.Com 11. - Skutter obligne ovet senale ovel on the back slope of the talende, income, gad. ancol District Control of the contro spin, 12-16, of which the Coppen ones are stouter a laken. Other, stille, 2-3 l. log. centre spin lover one hash Court hooken i Hærelle som 6 stift strike britter often longer than the secondilla. Leed for a mong The Thine, of this sperimen 0.5 l. log, black, pitter oboute rougerend, vitt namme solbage helen, - veg much like the zeed of M. Grahami bleghti av barbett, esperally like the first, but more distinctly sombiculate figure of seed on among Leeds of Maurilanie

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notes i Collestelles In 1857 Man jeshyrunthoides I series of 19-17 slender bistly or almost handiked spine, and 1-2 brown hosked spints at spines of the Same length and or shorter - all packering Spine, aben Zinch long Mam Schiedena spine, har like numeron series soverig the whole polorate areola, fin brigg, orhandeke, mente 3 Auches ling long; Rhite puber. el 100-150 - normber; low park This ag stiffe, i en in lei let, upprømte Their flex word, infillary, Twites - I hally molate. Amagement of spinn evidently allie, the speries with our m. Cariere-The MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

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